

WHAT IS CLAIMED IS:

1. A dynamo-electric machine comprising:
  - a yoke;
  - magnetic poles fixed in said yoke;
  - a shaft rotatably provided in said yoke;
  - an armature having a winding consisting of a plurality of coil portions each formed by lap-winding a conductor between a corresponding pair of slots formed in an outer circumferential surface portion of a core fixed to said shaft in such a way as to extend in an axial direction thereof;
  - a commutator fixed to an end portion of said shaft and having a plurality of segments to which both end sections of said coil portions are electrically connected;
  - brushes made to respectively abut against the surfaces of said segments of said commutator; and
  - equalizers for connecting said segments, which are to be at equal electric potential, to each other,
  - wherein n (incidentally, "n" is a common divisor of the number of the magnetic poles and the number of the slots and equal to or more than 2) of said coil portions are parallel-connected between said segments, and
  - wherein said coil portions are disposed in such a manner as to be symmetrical with respect to a mechanical angle of 360 degrees.
2. A dynamo-electric machine according to claim 1, wherein each of said coil portions comprises a plurality of small coil portions parallel-connected to one another.

3. A dynamo-electric machine according to claim 1, wherein the number of the slots and the number of the segments are 22, wherein the number of poles is 4, and wherein two of the coil portions are parallel-connected between each pair of said segments.

4. A dynamo-electric machine according to claim 1, wherein said conductor and said equalizer are constituted by members made of a same material, and wherein said winding and said equalizer are continuously connected to each other.

5. A dynamo-electric machine according to claim 1, wherein said conductor is an enamel-coated round wire.

6. A dynamo-electric machine according to claim 1, which is a motor for use in an electric power steering system.